

Bibliographic Information

Cobalt carbonate. Alyanova, L. N.; Gorskaya, L. N.; Korf, D. M. U.S.S.R. (1968), CODEN: URXXAF SU 219592 19680614 Patent written in Russian. Application: SU 19660726. CAN 69:88451 AN 1968:488451 CAPLUS (Copyright 2003 ACS)

Patent Family Information

<u>Patent No.</u>	<u>Kind</u>	<u>Date</u>	<u>Application</u>
<u>No.</u>	<u>Date</u>		
SU 219592		19680614	SU
19660726			

Abstract

Co carbonate is obtained by treating Co nitrate with K₂CO₃ at pH 8-8.2 with further filtration, washing, and drying of the ppt.

(3)

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CAPLUS Answers
1 for 92:61186

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Bibliographic Information

Highly active basic cobalt carbonate. Shudo, Minoru; Nabeshima, Joji; Toda, Hirao. (Sumitomo Metal Mining Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho (1979), 9 pp. CODEN: JKXXAF JP 54131597 19791012 Showa. Patent written in Japanese. Application: JP 78-40032 19780404. CAN 92:61186 AN 1980:61186 CAPLUS (Copyright 2003 ACS)

Patent Family Information

Patent No.	Kind	Date	Application No.	Date
JP 54131597	A2	19791012	JP 1978-40032	19780404
<u>Priority Application</u>				
JP 1978-40032		19780404		

Abstract

Aq. one or more of Na, K, and NH₄ bicarbonates or of the carbonates satd. with CO₂ is stirred with an aq. inorg. acid salt of Co at a Co/CO₃ 0.3-0.5 ratio at < 40° to give pH 7.0-7.4, the ppt. is filtered, washed, and dried at 40-100°. It is used for pH adjustment of an electroplating bath or an intermediate for catalyst and salt manuf. Thus, 800 mL soln. contg. 50 g NaHCO₃ (pH 8.0) was mixed with 316 mL aq. CoCl₂ contg. 42.7 g Co/L (ratio 0.38) at 20.7 mL/min, and stirred at 800 rpm to remove CO₂ and to give pH 7.2. The sedimentation rate was 18.3 mm/min and filtration rate in a test 7.9 m³/m² h, vs. 3.8 and 4.4 when the aq. NaHCO₃ had been stirred to give pH 8.41 (5.3% decompn.). The amt. insol. in dil. AcOH was .apprx. 0.2 and 5% after prepn. or 20 days, vs. .apprx. 26% with com. one.

(4)
(10)

Porous cobaltous carbonate spheres. Miyata, Kenichi; Nakahara, Yoshiko. (Agency of Industrial Sciences and Technology, Japan). Jpn. Kokai Tokkyo Koho (1978), 6 pp. CODEN: JKXXAF JP 53021099 19780227 Showa. Patent written in Japanese. Application: JP 76-95819 19760810. CAN 89:131795 AN 1978:531795 CAPLUS (Copyright 2003 ACS)

Patent Family Information

Patent No.	Kind	Date	Application No.	Date
JP 53021099	A2	19780227	JP 1976-95819	19760810
JP 55037492	B4	19800929		

Priority Application

JP 1976-95819 19760810

Abstract

An emulsion contg. a water-sol. Co(II) salt and an org. solvent is mixed with an aq. soln. of alkali metal or NH4 bicarbonate to prep. the porous CoCO3 spheres having av. diam. 0.1-2.0 μ and av. pore diam. 10-80 .ANG.. The spheres are used for pigments, humidity indicator pigments, catalysts for org. synthesis, and thermistors. Thus, 1M NaHCO3 soln. was mixed with an emulsion contg. 2M CoSO4 and 3% sorbitan monostearate-C6H6 soln., stirred, and filtered. The spheres had an av. diam. apprx.6 μ and an av. pore diam. 20 .ANG..

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Bibliographic Information

Cobalt(II) hydroxide. Alyanova, L. N.; Gorskaya, L. N. (USSR). U.S.S.R. (1977), CODEN: URXXAF SU 548570 19770228 Patent written in Russian. Application: SU 75-2115160 19750320. CAN 86:157734 AN 1977:157734 CAPLUS (Copyright 2003 ACS)

Patent Family Information

Patent No.	Kind	Date	Application No.	Date
SU 548570	T	19770228	SU 1975-2115160	19750320

Priority Application
SU 1975-2115160 19750320

Abstract

Co(OH)₂ was obtained by treating a Co compd. with NaOH, sepn. of the resulting ppt., washing, and drying. To lower contamination of the product and to make it possible to ppt. Co(OH)₂ at a normal temp., Co basic carbonate was used for the initial Co compd.

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CAPLUS Answers

1 for jp 53021099
0 for jp 548570
1 for jp 04059622

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Preparation of high-purity cobalt monoxide. Kubota, Mitsunori. (Sumitomo Kinzoku Kozan K. K., Japan). Jpn. Kokai Tokkyo Koho (1992), 3 pp. CODEN: JKXXAF JP 04059622 A2 19920226 Heisei. Patent written in Japanese. Application: JP 90-168385 19900628. CAN 117:10958 AN 1992:410958 CAPLUS (Copyright 2003 ACS)

Patent Family Information

Patent No.	Kind	Date	Application No.	Date
JP 04059622	A2	19920226	JP 1990-168385	19900628
Priority Application				
JP 1990-168385				19900628

Abstract

In a process for prepn. of CoO by mixing and reacting of Co²⁺-ion-contg. aq. soln. and alkali aq. soln. to form Co(OH)₂, sepg. solid from liq., dewatering and roasting in vacuum, a Co²⁺-ion-contg. aq. soln. contg. Co ≤ 60 g/L is added to an agitating alkali aq. soln. at a speed ≤ 1.0 L/h, and maintaining reaction temp. at 50-60° and reaction system pH change range at ≤ 0.1 for an optional pH between 7 to 10. The Co²⁺-ion-contg. aq. soln. is CoCl₂, Co(NO₃)₂, Co acetate and/or CoSO₄. The alkali aq. soln. is NaOH, KOH, Na₂CO₃ and/or K₂CO₃.

Bibliographic Information

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Porous cobalt oxide spherical granules. Miyata, Kenichi; Nakahara, Yoshiko. (Agency of Industrial Sciences and Technology, Japan). Jpn. Kokai Tokkyo Koho (1978), 8 pp. CODEN: JKXXAF JP 53022193 19780301 Showa. Patent written in Japanese. Application: JP 76-96703 19760812. CAN 89:26872 AN 1978:426872 CAPLUS (Copyright 2003 ACS)

Patent Family Information

Patent No.	Kind	Date	Application No.	Date
JP 53022193	A2	19780301	JP 1976-96703	19760812
JP 55043404	B4	19801106	JP 1976-96703	19760812

Priority Application

JP 1976-96703 19760812

Abstract

Small porous spherical particles (av. diam. 0.1-20 μ , av. pore diam. 10-80 .ANG.) of Co oxide (CoO, Co₃O₄) are obtained by heating spherical CoCO₃ (av. diam. 0.1-20 μ , av. pore diam. 10-80 .ANG.) or by oxidizing spherical porous Co (av. diam. 0.1-20 μ , pore diam. 10-100 .ANG.). These spherical Co oxides with almost perfect spherical shape have good flow, packing, and dispersing characteristics, and are useful as pigments, catalysts, and as raw materials in metallurgy.